

3M™ DIN R-Form Socket

Right Angle, Solder Tail Termination

DIN 41612 Series



- Inverse boardmount connector
- Select load capability
- Expanded pin counts
- Optional retention clips
- Mates with C-form and R-form plugs
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: October 29, 2012

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Physical

Insulation:

Material: Glass Filled Polyester (PBT)
Flammability: UL 94V-0
Color: Gray

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ ” Min. Nickel
Wiping Area: See Ordering Information
Termination: See Ordering Information

Electrical

Current Rating: 3.0A at 30°C T-rise above Ambient
Contact Resistance: ≤ 20 m Ω
Insulation Resistance: $\geq 1,000$ M Ω , 100V_{DC}
Withstanding Voltage: 1,000 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to 125°C
Process Temperature Rating: Maximum Insulator Temperature 191°C (solder wave process only)

UL File No.: E68080



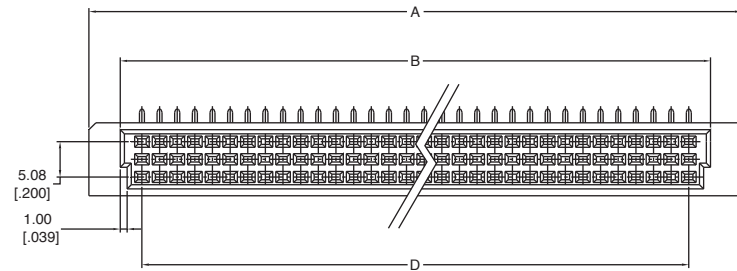
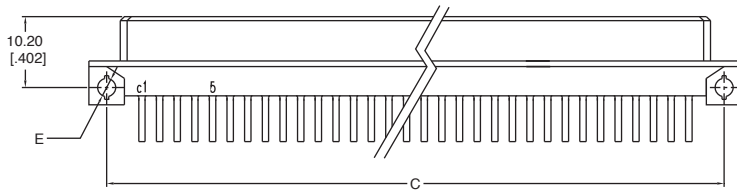
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Table 1

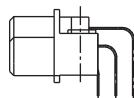
| Contact Quantity | Part Number | A | B | C | D | E | F |
|------------------|---------------------|---------------|---------------|---------------|--------------|--------------|------------|
| 16 | DIN-016RSA-XXX-XXXX | 53.40[2.102] | 44.40[1.748] | 48.26[1.900] | 38.10[1.500] | Ø2.60[Ø.102] | 0.25[.010] |
| 32 | DIN-032RSB-XXX-XXXX | 53.40[2.102] | 44.40[1.748] | 48.26[1.900] | 38.10[1.500] | Ø2.60[Ø.102] | 0.25[.010] |
| 48 | DIN-048RSC-XXX-XXXX | 53.40[2.102] | 44.40[1.748] | 48.26[1.900] | 38.10[1.500] | Ø2.60[Ø.102] | 0.25[.010] |
| 32 | DIN-032RSD-XXX-XXXX | 53.40[2.102] | 44.40[1.748] | 48.26[1.900] | 38.10[1.500] | Ø2.60[Ø.102] | 0.25[.010] |
| 16 | DIN-016RSE-XXX-XXXX | 53.40[2.102] | 44.40[1.748] | 48.26[1.900] | 38.10[1.500] | Ø2.60[Ø.102] | 0.25[.010] |
| 32 | DIN-032RSA-XXX-XXXX | 94.00[3.701] | 85.00[3.346] | 88.90[3.500] | 78.74[3.100] | Ø2.60[Ø.102] | 0.25[.010] |
| 64 | DIN-064RSB-XXX-XXXX | 94.00[3.701] | 85.00[3.346] | 88.90[3.500] | 78.74[3.100] | Ø2.60[Ø.102] | 0.25[.010] |
| 96 | DIN-096RSC-XXX-XXXX | 94.00[3.701] | 85.00[3.346] | 88.90[3.500] | 78.74[3.100] | Ø2.60[Ø.102] | 0.25[.010] |
| 64 | DIN-064RSD-XXX-XXXX | 94.00[3.701] | 85.00[3.346] | 88.90[3.500] | 78.74[3.100] | Ø2.60[Ø.102] | 0.25[.010] |
| 32 | DIN-032RSE-XXX-XXXX | 94.00[3.701] | 85.00[3.346] | 88.90[3.500] | 78.74[3.100] | Ø2.60[Ø.102] | 0.25[.010] |
| 40 | DIN-040RSA-XXX-XXXX | 114.32[4.501] | 105.32[4.146] | 109.22[4.300] | 99.06[3.900] | Ø2.80[Ø.110] | 0.60[.024] |
| 80 | DIN-080RSB-XXX-XXXX | 114.32[4.501] | 105.32[4.146] | 109.22[4.300] | 99.06[3.900] | Ø2.80[Ø.110] | 0.60[.024] |
| 120 | DIN-120RSC-XXX-XXXX | 114.32[4.501] | 105.32[4.146] | 109.22[4.300] | 99.06[3.900] | Ø2.80[Ø.110] | 0.60[.024] |
| 80 | DIN-080RSD-XXX-XXXX | 114.32[4.501] | 105.32[4.146] | 109.22[4.300] | 99.06[3.900] | Ø2.80[Ø.110] | 0.60[.024] |
| 40 | DIN-040RSE-XXX-XXXX | 114.32[4.501] | 105.32[4.146] | 109.22[4.300] | 99.06[3.900] | Ø2.80[Ø.110] | 0.60[.024] |



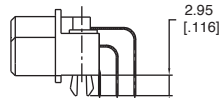
mm
[inch]

| Tolerance Unless Noted | | | |
|------------------------|--------|--------|--------|
| | X. | .X | .XX |
| mm | ± 0.50 | ± 0.25 | ± 0.15 |

[] Dimension for Reference Only



SR1
WITHOUT RETENTION CLIP



RR1L
WITH "B" RETENTION CLIPS
for .062 PCB thickness

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RECOMMENDED PCB LAYOUT

Ordering Information

DIN - XXXRS X - XXX - XX

Contact Quantity
SEE TABLE 1

- A = A Row only (see note)
- B = Rows A & C Filled
- C = Rows A, B & C Filled
- D = Rows A & B Filled
- E = B Row only (see note)

Plating Options:

- SH = 1 - 3 μm Gold on Contact
120 - 200 μm Matte Tin on Terminal
- FJ = 10 - 20 μm Gold on Contact
120 - 200 μm Matte Tin on Terminal
- KR = 30 - 40 μm Gold on Contact
120 - 200 μm Matte Tin on Terminal
- HM = 3 μm Gold on Contact, 7 μm Min. PdNi
120 - 200 μm Matte Tin on Terminal

Termination Options:

- SR1 = 3.00 [.118]
- RR1L = 3.00 [.118] with 'B' retention clips

Note: A and E options are currently not covered in UL File No. E68080

• This diagram serves only for Part Number descriptive definitions.

PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS.

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3M

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Interconnect Solutions
<http://www.3Mconnectors.com/>

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